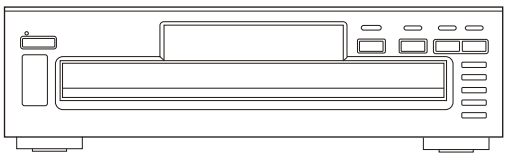


TEAC

SERVICE MANUAL

DV-M5000

DVD Multi Player

NOTES

- PC board shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. they must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

CONTENTS

1 SAFETY INFORMATION ---------- 2
2 SPECIFICATIONS ---------- 3
3 EXPLODED VIEW AND PARTS LIST --------- 4
4 PC BOARDS AND PARTS LISTS ---------- 6
5 WIRING DIAGRAM ---------- 14
6 INCLUDED ACCESSORIES ---------- 16

1 SAFETY INFORMATION

SAFETY INFORMATION

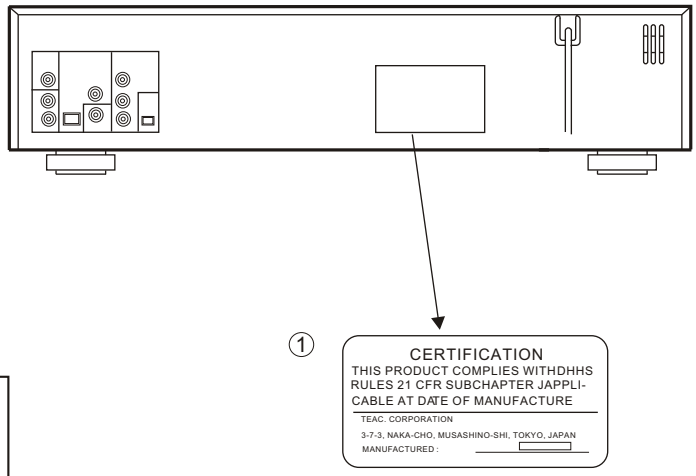
This product has been designed and manufactured according to FDA regulations " title 21, CFR, chapter 1,subchapter J,based on the Radiation Control for Health and Safety Act of 1968" and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is shown ①.

• CAUTION

USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT REMOVE THE PROTECTIVE HOUSING USING SCREWDRIVER.

IF THIS PRODUCT DEVELOPS TROUBLE, MAKE A CONTACT WITH OUR SERICEMAN, AND DO NOT USE THE PRODUCT A TROUBLED STATE.


①
CERTIFICATION
THIS PRODUCT COMPLIES WITHDHHS RULES 21 CFR SUBCHAPTER JAPPLI-CABLE AT DATE OF MANUFACTURE
TEAC. CORPORATION
3-7-3, NAKA-CHO, MUSASHINO-SHI, TOKYO, JAPAN
MANUFACTURED :

Optical pickup:

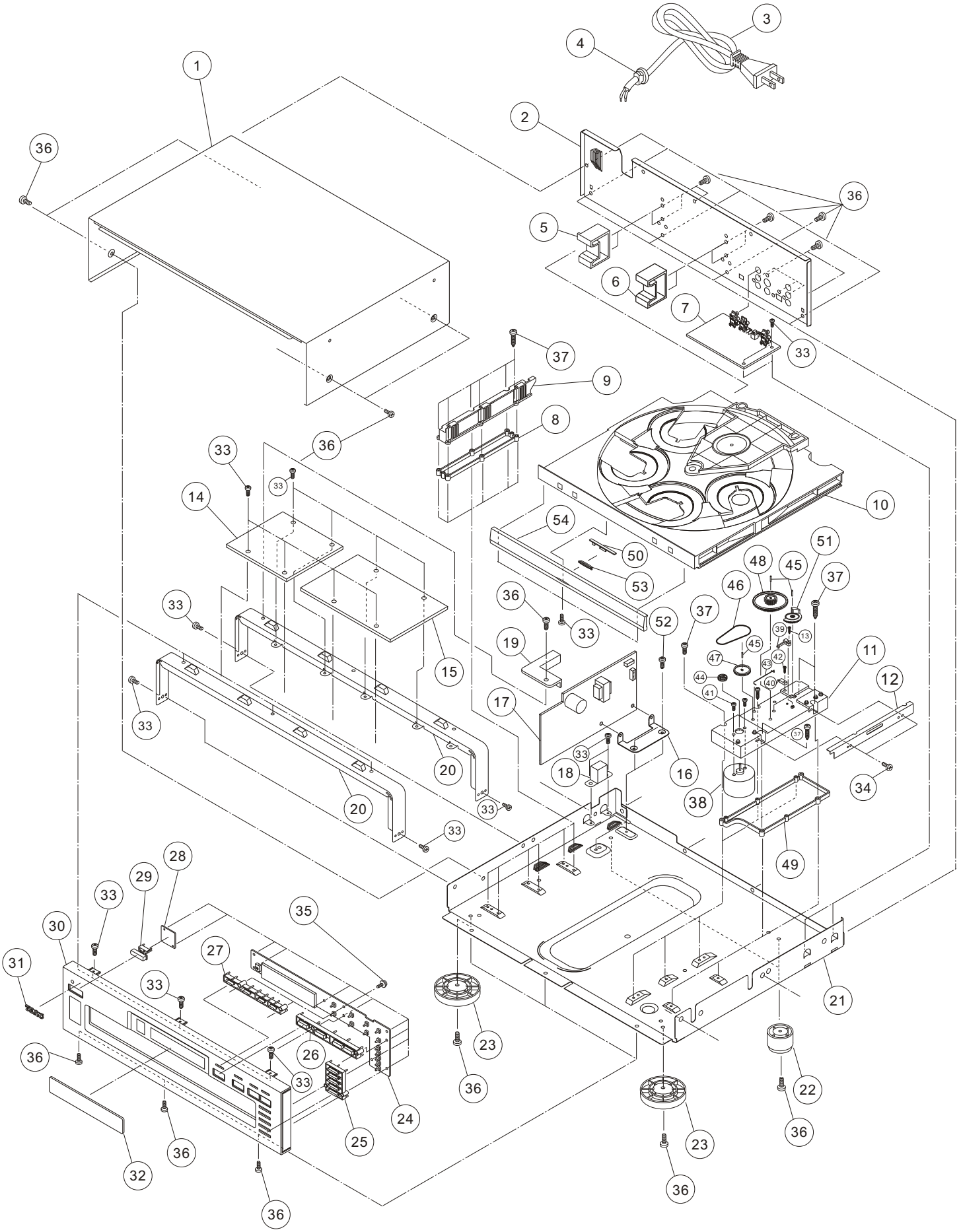
Type	: KHM-230AAA
Manufacturer	: SONY Corporation
Laser output	: Less than 0.7 mW on the objective lens
Wavelength	: 760 -800 nm(CD),640-660nm (DVD)

2 SPECIFICATIONS

System:	5-dics DVD/VCD/MP-3/CD/CD-R/CD-RW Changer
Frequency Response :	20 -18 kHz
Harmonic Distortion :	Less than 0.02% (1kHz)
S/N Ratio (IHF-A) :	More than 98 db
Channel Separation:	85 db
Laser picker (wavelength) :	**DVD :** 640 - 660nm **CD :** 760 - 800nm **Laser power :** CLASS II
Error Correction :	CIRC
Digital Filter :	8 times over sampling
D/A Converter :	64fs Dual Delta Sigma converter
Output :	**Video output :** 1 - RCA jack **S-Video output :** 1 - S terminal
Component Video Output :	3 RCA jacks
Digital Output :	Optical 1 - Optical (TOS) terminal Coaxial 1 - Pin (RCA) jack
Power Source :	AC 100 - 240V , 50/60 Hz
Power Consumption :	15 watts
Dimension (W x H x D):	435 x 124 x 382 mm
Weight:	6.2 Kg (13-5/8 lbs)
Supplied Accessories :	RCA cable (for audio) x1 RCA Video cable x1 Remote Control unit x1

- Improvements may result in changes the specifications and features.
- Illustrations may differ slightly from production model.

3 EXPLODED VIEW AND PARTS LIST



EXPLODED VIEW-1

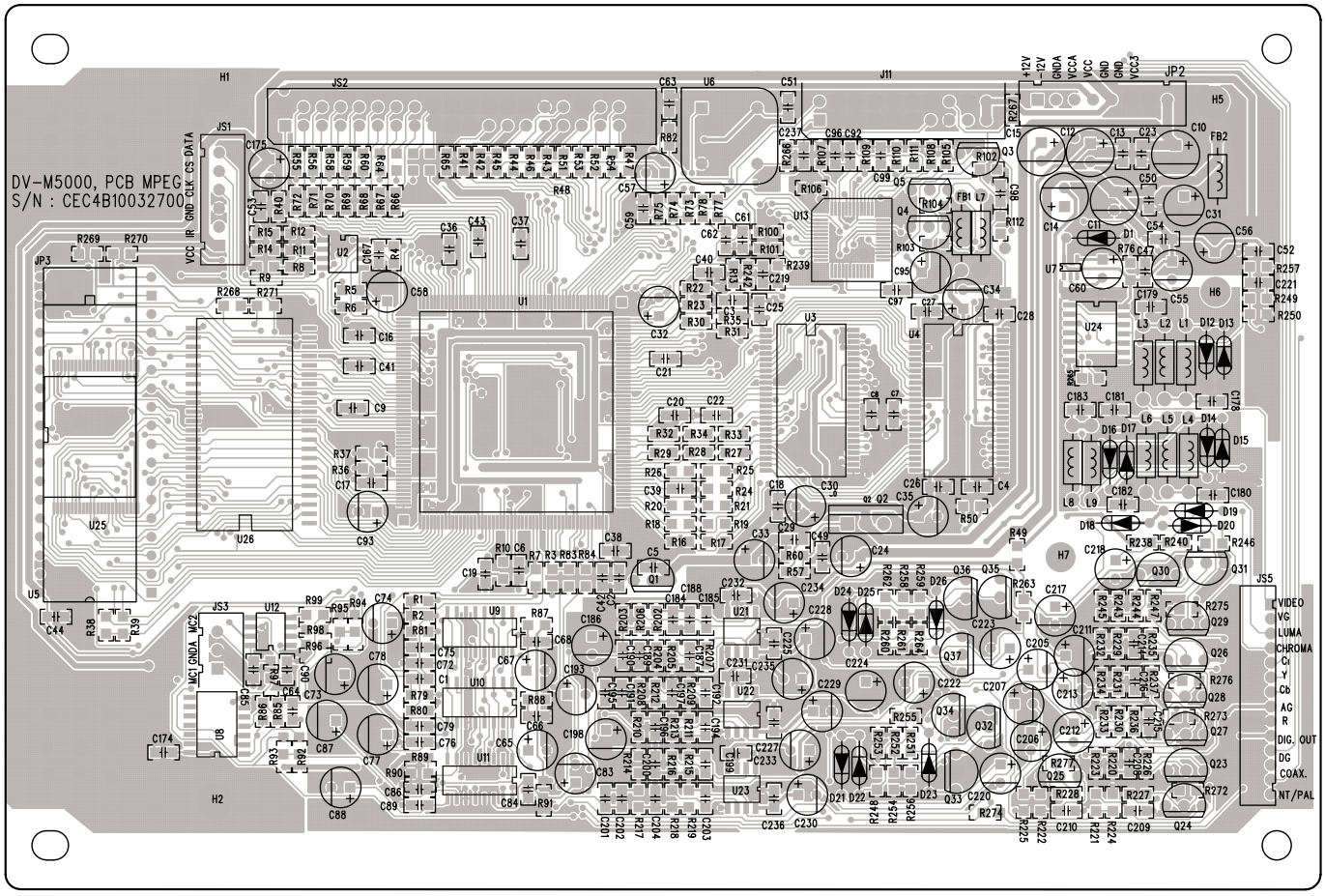
REF. NO		PARTS NO.	DESCRIPTION	REMARKS
1		56-12D1200B1-22	CABINET TOP	
2		61-63M500000-02	PANEL REAR	
3	⚠	45-111830105-03	AC CORD SPT-2	
4	⚠	56-004000R10-BA	BUSHING	
5		56-724000R00-BA	STOPPER - L	
6		56-724000R10-BA	STOPPER - R	
7		01-DVM500007-00	OUTPUT BOARD ASSY	
8		56-07D250000-BA	BASE LEFT	
9		56-07M5000B0-10	BASE LEFT	
10		56-004000R31-BA	TURNTABLE CHANGER	
11		56-07D250010-BA	BASE RIGHT	
12		61-11D250030-01	BRACKET - MBASE RIGHT	
13		66-532260631-03	SCREW BTTP 2.6X6MC	
14		01-DVM500010-01	SERVO BOARD ASSY	
15		01-DVM500008-02	MPEG BOARD ASSY	
16		61-11M500000-00	BRACKET - EPCB POWER	
17		01-DVM500003-00	SMPS(POWER) BOARD ASSY	
18		61-11RWD2520-00	BRACKET - MSTOPPER	
19		56-07M5004B0-10	PCB BRACKET -E	
20		61-11M500010-00	BRACKET -M TOP	
21		61-19D250000-01	CHASSIS - REV.2	
22		56-000112000-BA	LEG-REAR	
23		56-00D120000-BA	LEG (HOT STAMP)	
24		01-DVM500004-00	DISPLAY BOARDASSY	
25		56-54M5003F0-10	BUTTON FUNCTION	
26		56-54M5000B0-10	BUTTON PLAY	
27		56-54M5001B0-10	BUTTON DISC	
28		01-DVM500022-00	KEY BOARD ASSY	
29		56-54M5002B0-10	BUTTON POWER	
30		56-04M5000B0-A0	ESCUTCHEON	
31		56-58WD250B0-10	BADGE	
32		56-57M5000200-70	WINDOW	
33		66-522300631-03	SCREW BTTB 3X6MC	
34		66-522300831-03	SCREW BTTB 3X8MC	
35		66-524260831-03	SCREW BTTB 2.6X8MC	
36		66-524300811-03	SCREW BTTB 3X8AB BLK	
37		66-524301431-03	SCREW BTTB 3X14MC	
38		58-444000R10-00	MOTOR 6.0V	
39		41-061100000-07	LEAF SWITCH	
40		41-061100000-F9	LEVER SWITCH	
41		66-220260631-03	SCREW MS/BH 2.6X6	
42		66-522170811-03	SCREW BTTB 1.7X8	
43		61-944000R00-00	SPRING WIRE	
44		56-76D120012-JA	PULLEY MOTOR	
45		61-65D120001-01	PIN GEAR	
46		58-04D120001-00	BELT SQUARE(2)	
47		56-764000R12-JA	PULLEY	
48		56-374000R42-JA	GEAR RETURN	
49		56-07M5001B0-10	BASE RIGHT	
50		01-DVM500005-00	LAMP BOARD ASSY	
51		56-374000R52-JA	GEAR LOAD	
52		66-542400631-00	SCREW TT/TH 4X6	
53		56-32M500060-70	FILTER LEDTRAY	
54		56-12M5000B0-10	DECORATION TRAY	

4 PC BOARDS AND PARTS LIST

MPEG BOARD ASSY

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	01-DVM50008-02	MPEG BOARD ASSY	
	48-DVM50008-00	MPEG PCB	
D12-D17	15-1S6000000-00	DIODE - 1S60	
D18-D20	15-0001N4148-00	DIODE - 1N4148	
FB1,2	32-335300000-00	FERRITE BEAD 3.5x6x0.8	
JP2	43-9A2501081-00	WAFER 8 PINS 180C	
JS1	43-9A2501061-00	WAFER 6 PINS 180C	
JS2	43-9A2541401-00	ATAPI WAFER 20Px2 180C	
JS5	43-9A2001141-00	WAFER 14 PINS 180C	
L1,4,7	38-310090000-50	INDUCTORS 1UH	
L2	38-318090000-50	INDUCTORS 1.8UH	
L3,6,9	38-306890000-50	INDUCTORS 0.68UH	
L5,8	38-327090000-50	INDUCTORS 2.7UH	
Q29,30	11-8550C0002-00	TR-8550C	
Q23,26,31	11-9014C0001-00	TR-9014C	
U1	16-ES4318F00-00	IC-ES4318F	
U2	16-AT24C02N0-00	IC-AT24C02N-10SC-2.7	
U3,4	16-M12L16161-00	IC-M12L16161A-7T	
U5	16-F29C51004-00	IC-F29C51004T-90PC	
U6	31-127002000-18	CRYSTAL 27.00MHZ	
U7	16-BD4745G00-00	IC-BD4745G	
U8	16-TC74HCU04-00	IC-TC74HCU04AF	
U9	16-CS4340KS0-00	IC-CS4340-KS	
U13	16-CS4955000-00	IC-CS4955-C0	
U21,22	16-NJM4558M0-00	IC-NJM4558M	
U24	16-TC74HC040-00	IC-TC74HC04AF	

MPEG BOARD



DISPLAY BOARD ASSY

REF. NO	PARTS NO.	DESCRIPTION
	01-DVM500004-00	DISPLAY BOARD ASSY
	48-DVM500004-01	DISPLAY PCB
CN302	43-9A2001041-00	WAFER 4 PINS 180C
CN306	43-9B2001121-00	WAFER 12PINS 90C
D301-D303	15-1SS133T77-00	DIODE 1SS133-T-77
FL301	13-6DVM50001-33	DISPLAY #HNA-12SM15
IC301	16-TMP87PS01-00	IC-TMP87PS71AT-QFP80
Q301	11-2SA933004-06	TR-2SA933AS-TP
S301-306, S308-314	41-150100001-0D	TACT SWITCH H=9.5MM
U301	17-51U271X00-18	GP1U27IX
X301	31-180004000-18	CRYSTAL 8.00MHZ

KEY BOARD ASSY

REF. NO	PARTS NO.	DESCRIPTION
	01-DVM500022-000	KEY BOARD ASSY
	48-DVM500022-00	KEY PCB
D301	13-1SLA370LT-20	LED
CN308	43-9A2001041-00	WAFER 4 PINS 180C
S307	41-150100001-0D	TACT SWITCH H=9.5MM

LAMP BOARD ASSY

REF. NO	PARTS NO.	DESCRIPTION
	01-DVM500005-00	LAMP BOARD ASSY
	48-DVM500005-00	LAMP PCB
CN309	43-9A2001021-00	WAFER 2 PINS 180C
L301	54-010615300-00	PILOT LAMP #4Q

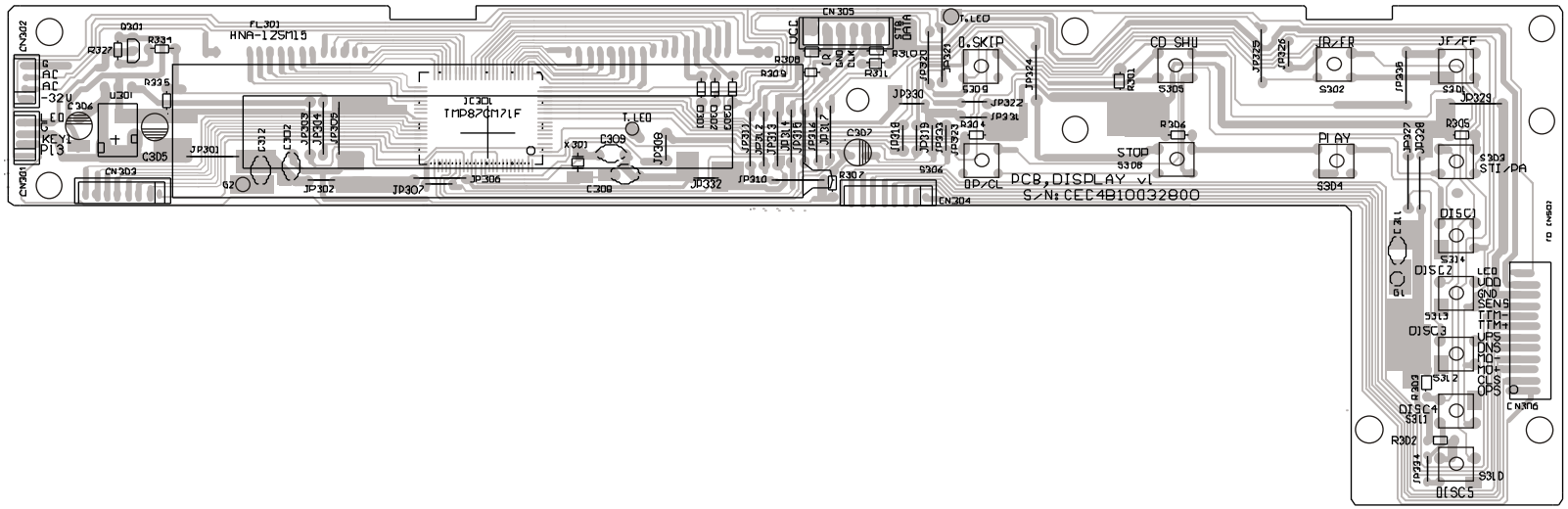
OUTPUT BOARD ASSY

REF. NO	PARTS NO.	DESCRIPTION
	01-DVM500007-00	OUTPUT BOARD ASSY
	48-DVM500007-01	OUTPUT PCB
CN501	43-9A2001141-00	WAFER 14 PINS 180C
CN504	43-9B1001101-00	WAFER 10 PINS 90C
CN503	43-9B2001061-00	WAFER 6 PINS 90C
CN502	43-9B2001121-00	WAFER 12 PINS 90C
CN505	43-9B2501021-00	WAFER 2 PINS 90C
IC301,302	16-TA7291S00-02	IC-TA7291S
JK501	43-433050200-03	RCA JACK 3P
JK502	43-432105000-03	DIN+RCA JACK
JK503	17-7F32T0000-18	CONVERTOR #GP1F32T
JK504	43-433050300-03	RCA JACK 3P
Q501	11-2SD1936T2-00	TR-2SD1936T
Q502	11-2SB764E02-03	TR-2SB764-E
SW501	41-131212808-03	SLIDE SWITCH

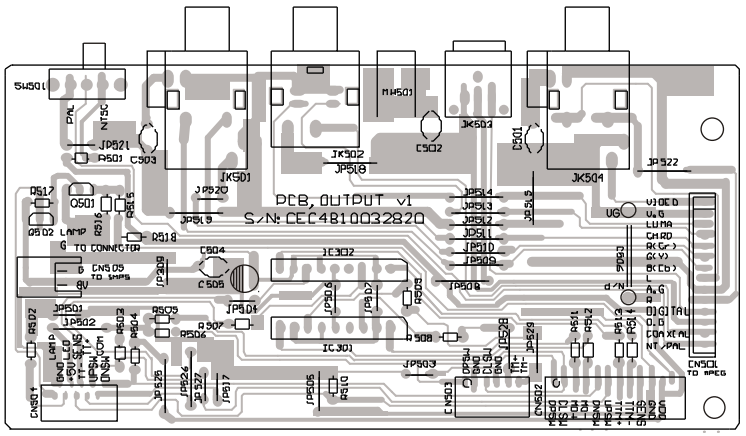
CONNECTOR BOARD ASSY

REF. NO	PARTS NO.	DESCRIPTION
	01-DVM500006-00	CONNECTOR BOARD ASSY
	48-DVM500006-00	CONNECTOR PCB
CN601,605	43-9B2001061-00	WAFER 6 PINS 90C
CN602	43-9B2001031-00	WAFER 3 PINS 90C
CN603	43-9B2001051-00	WAFER 5 PINS 90C
CN604	43-9B1001101-00	WAFER 10 PINS 90C
CN606	43-9B2001021-00	WAFER 2 PINS 90C
CN608,609	43-9B1002251-00	WAFER 25 PINS 90C

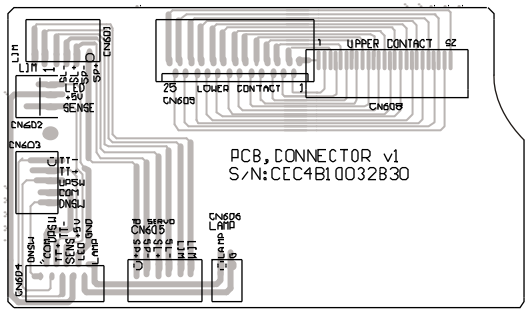
DISPLAY BOARD



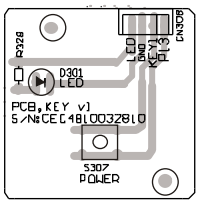
OUTPUT BOARD



CONNECTOR BOARD



KEY BOARD



LAMP BOARD

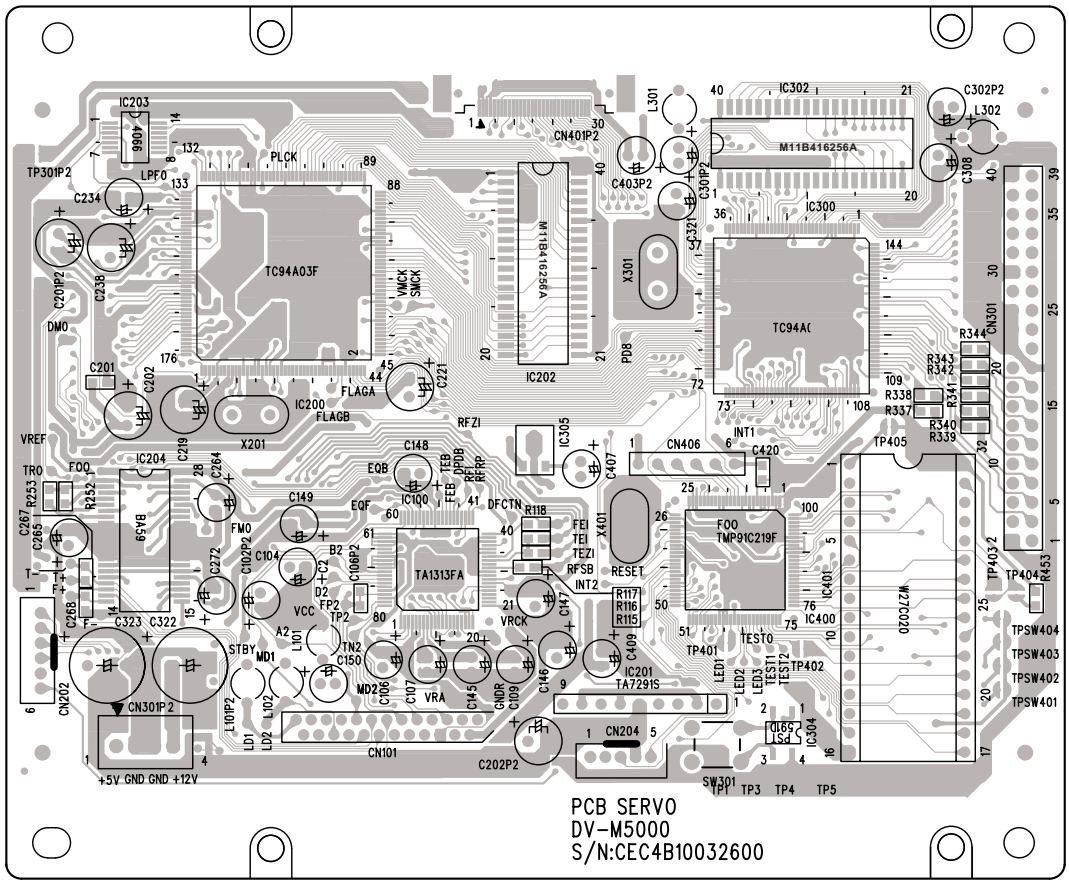
SERVO BOARD ASSY (TOP)

REF. NO	PARTS NO.	DESCRIPTION
	01-DVM500010-01	SERVO BOARD ASSY
	48-DVM500010-00	SERVO PCB
	61-48DVM5000-00	HEAT SINK
CN202	43-9A2001061-00	WAFER 6 PINS 180C
CN301	43-9A2541401-00	ATAPI WAFER 20Px2 180C
CN301P2	43-9A2501041-00	WAFER 4 PINS 180C
IC100	16-TA1313FA0-00	IC-TA1313FA-LQFP80
IC200	16-TC94A03F0-00	IC-TC94A03F-LQFP176
IC202,302	16-M11B41600-00	IC-M11B416256A-35J
IC203	16-TC4066BFT-00	IC-TC4066BFT
IC204	16-BA5983FM0-00	IC-BA5983FM
IC300	16-TC94A05F0-00	IC-TC94A05F-LQFP144
IC304	16-PST591D00-00	IC-PST591DMT
IC305	16-TA76431F0-00	IC-TA76431F
IC400	16-TMP91C219-00	IC-TMP91C219F-LQFP100
IC401	16-F29C51001-00	IC-F29C51001T-90PC
L101,101P2,102	38-304700004-41	CHOKE COIL 47UH
L301,302	38-304780004-41	CHOKE COIL 4.7UH
X201	31-122582000-18	CRYSTAL 22.580MHZ
X301	31-350005000-18	CER-RESONATOR ZTA50M
X401	31-120002000-18	CRYSTAL 20.00MHZ

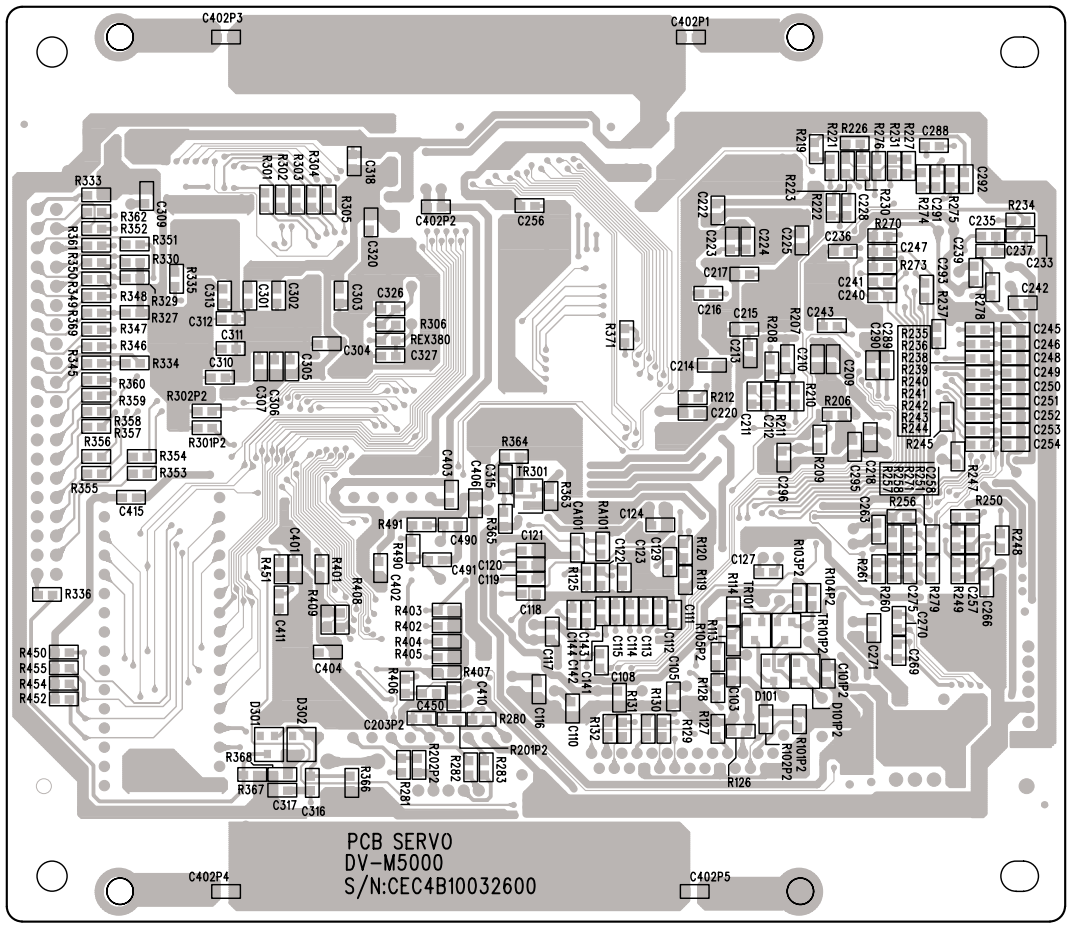
SERVO BOARD ASSY (BOTTOM)

REF. NO	PARTS NO.	DESCRIPTION
CN101	43-9B1001251-00	WAFER 25 PINS (F.F.C) 90C
D301,302	15-1SS344000-06	DIODE - 1SS344 (SMT)
TR101, TR101P2	11-2SA129800-04	TR - 2SA1298Y (SMT)
TR301	11-2SC3265Y0-04	TR - 2SC3265Y (SMT)

SERVO BOARD - TOP



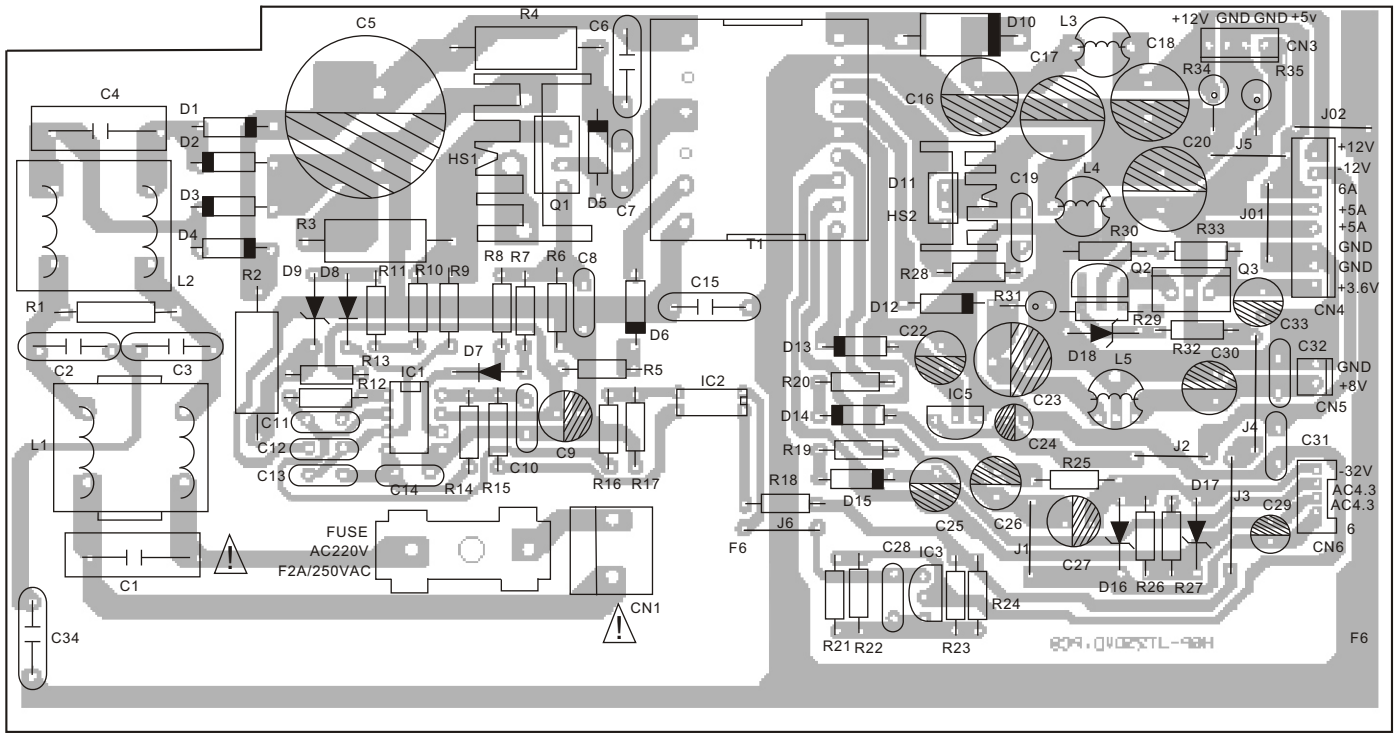
SERVO BOARD - BOTTOM



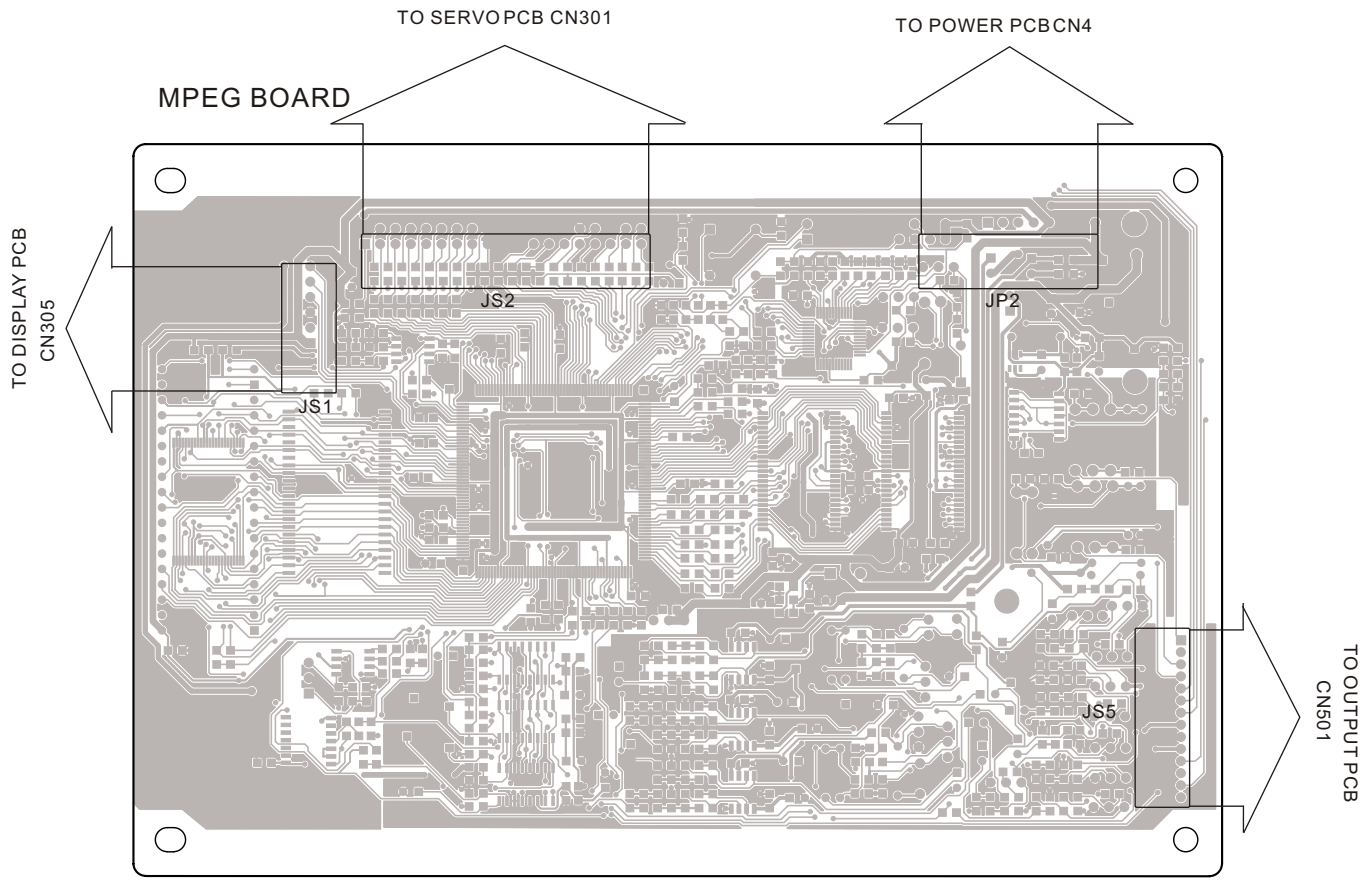
SMP(POWER) BOARD ASSY

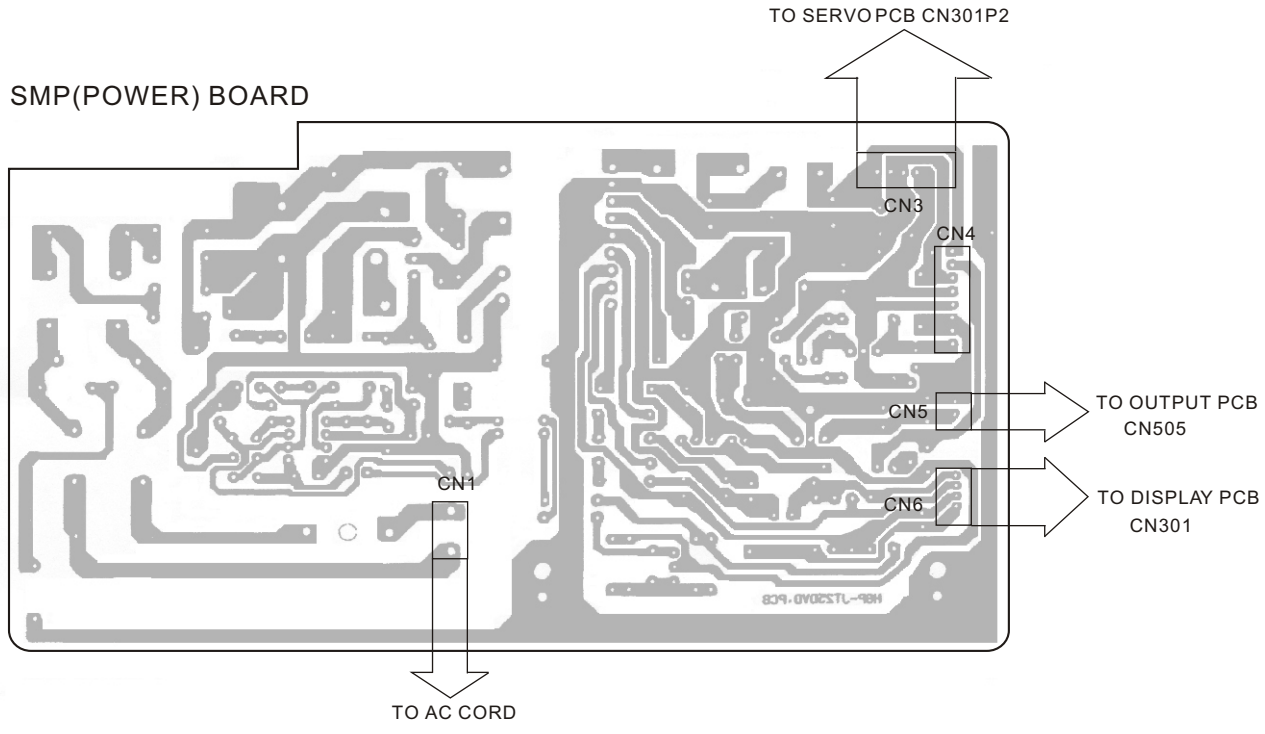
REF. NO		PARTS NO.	DESCRIPTION	REMARKS
		01-DVM50003-00	SMP(POWER) BOARD ASSY	
			SMP(POWER) PCB	
C1,4	⚠		C.CAP -104-275VAC	
C2,3	⚠		C.CAP -102-400VAC-B	
C15	⚠		C.CAP - 222-400VAC-E	
C5	⚠		E. CAP 47uF 400V-M	
C17	⚠		E. CAP 2200UF 10V-M	
C20	⚠		E. CAP 1000UF 10V-M	
CN1	⚠		WAFER 3 PINS - 3.96MM	
CN3			WAFER 4 PINS -2.54MM	
CN4			WAFER 8 PINS -2.54MM	
CN5			WAFER 2 PINS -2.54MM	
CN6			WAFER 4 PINS -2.0MM	
D1,2,3,4	⚠		DIODE - 1N4007	
D5	⚠		DIODE - 1U08	
D6,13			DIODE - FR102	
D7,8			DIODE - 1N4148	
D9			DIODE - 1N4751	
D10			DIODE - 31DQ10	
D11			DIODE - F10KQ40	
D12			DIODE - 21DQ06	
D14			DIODE - FR104	
D15			DIODE - FR102	
D16			DIODE - 1N4753	
D17			DIODE - 5.6V	
D18			DIODE - 2.3V	
FUSE	⚠		CIS2A250V	
IC1			IC - UC3842B	
IC2	⚠		IC - SFH615A	
IC3			IC - TL413C(W431)	
IC5			IC - 79L12	
L1	⚠		L1487(R7KB)	
L2	⚠		FT2030(R7KB)	
L3,5			D6X10(R1KB) - 4.5UH	
L4			D5X20(R1KB) - 3.5UH	
Q1			TR - IRFBC30G	
Q2			TR - 9013G	
Q3			TR - 3DD3852(DA1913)	
R2	⚠		R-2W 120K -5%	
R3	⚠		R-2W 1.0 -5%	
R4	⚠		R-2W 47K -5%	
T1	⚠		TRANSFORMER EDT28(NC2H)	

SMP(POWER) BOARD

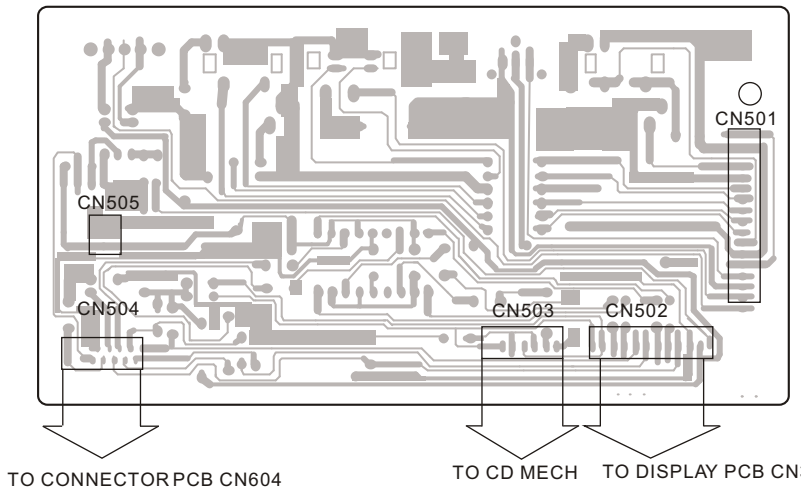


5 WIRING DIAGRAM

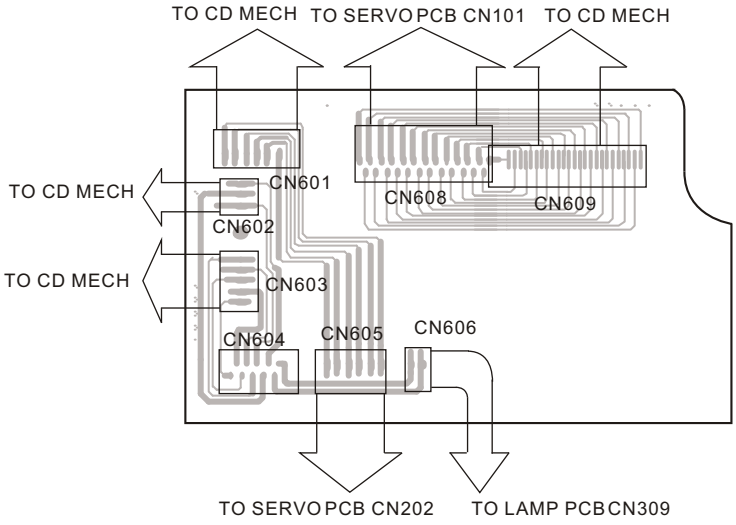




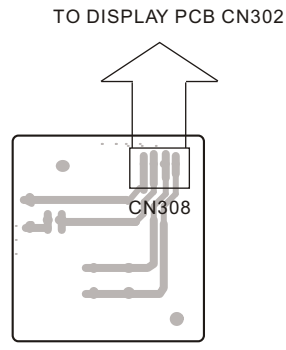
OUTPUT BOARD



CONNECTOR BOARD



KEY BOARD



6 INCLUDED ACCESSORIES

INCLUDED ACCESSORIES

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
	77-14D120000-01	WARRANTY CARD	
	77-20M500000-02	INSTRUCTION BOOK	
	82-200015030-00	PLUG CORD RCA 1P	
	01-1DVM50000-00	REMOTE CONTROL	

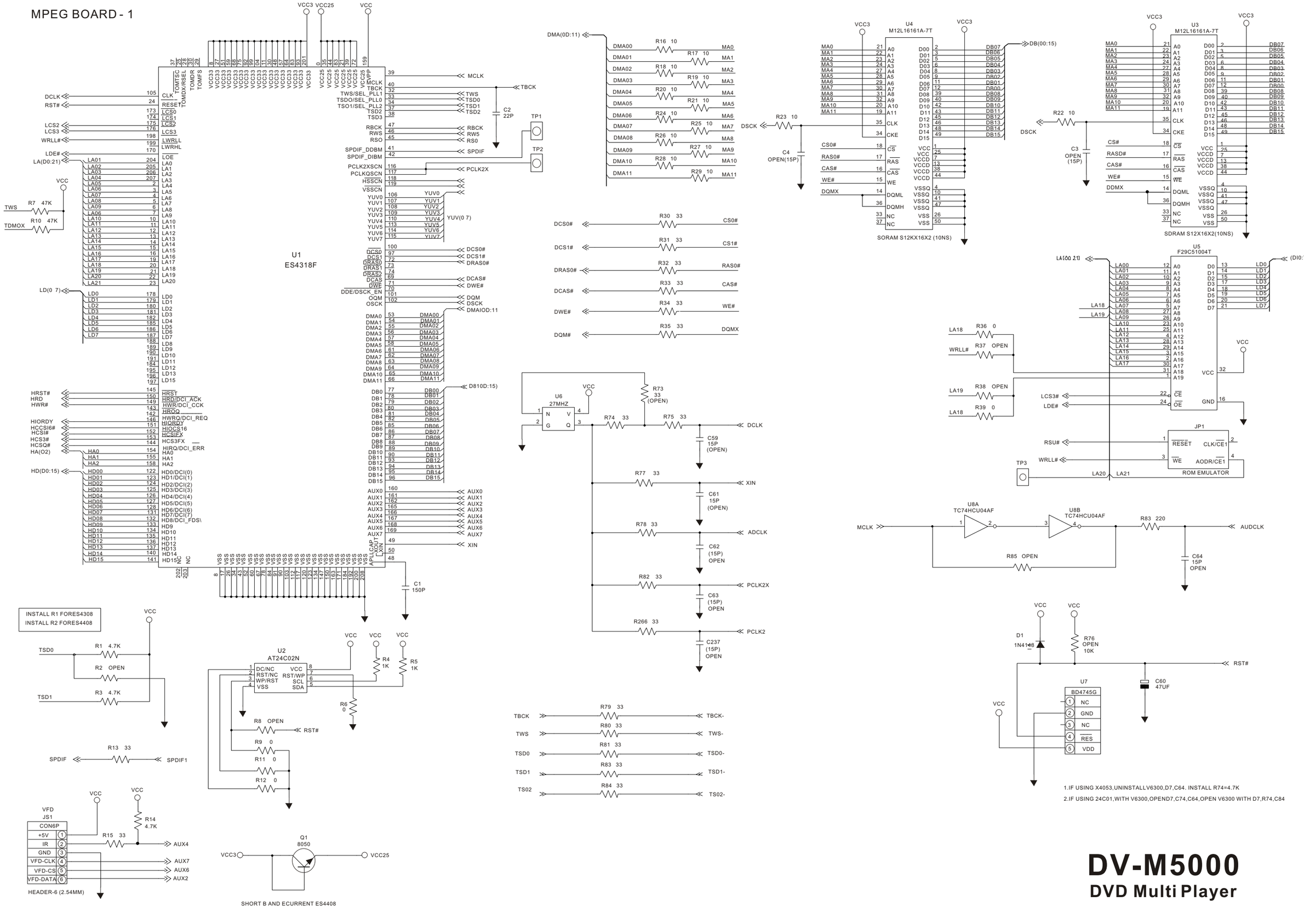
DV-M5000

TEAC

TEAC CORPORATION	3-7-3 Nakacho, Musashino-shi, Tokyo 180-8550, Japan Phone:(0422)52-5081
TEAC AMERICA, INC.	7733 Telegraph Road, Montebello, California 90640 Phone: (323)726-0303
TEAC CANADA LTD.	5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905)-890-8008
TEAC MEXICO, S.A.De C.V.	Campesinos 184, Col. Granjas Esmeraida, 09810, Mexico Phone: (525)-581-5500
TEAC UK LIMITED	5 Marlin House, Croxley Business Park, Watford, Hertfordshire, WD188TE, U.K. Phone: 01923-819699
TEAC DEUTSCHLAND GmbH	Bahnstrasse 12, 65205 Wlesbaden-Erbenheim, Germany Phone:0611-71580
TEAC FRANCE S.A.	17, Rue Alexis-de-Tocqueville, CE 005 92182 Antony Cedex, France Phone:(1)42.37.01.02
TEAC NEDERLAND BV	Oeverkruid 15, NL-4941 W Raamsdonksveer, Nederland Phone:0162-510210
TEAC BELGIUM NV/SA.	c/o TEAC NEDERLAND BV, Oeverkruid 15, NL-4941 W Raamsdonksveer, Nederland Phone:+31-162-510860
TEAC ITALIANA S.p.A.	Via C, Cantu 11, 20092 Cinisello Balsamo, Milano, Italy Phone:02-66010550
TEAC AUSTRALIA PTY., LTD. A.B.N. 80 005 408 462	280 William Street, Melbourne VIC 3000, Australia Phone:(03)9672-2400

PREPARED IN HONG KONG

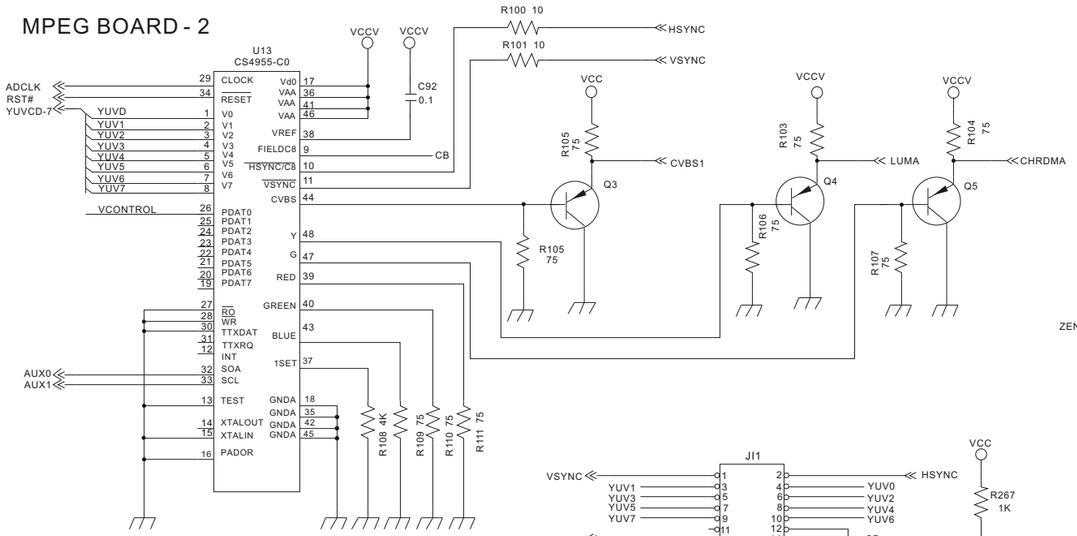
MPEG BOARD - 1

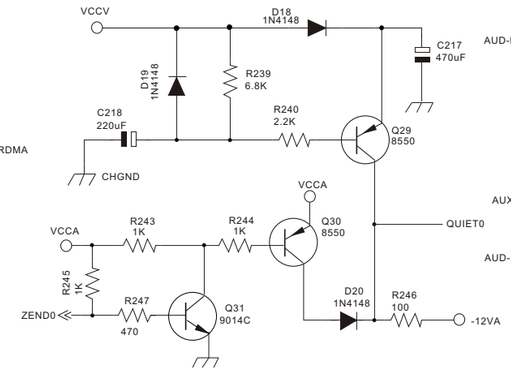


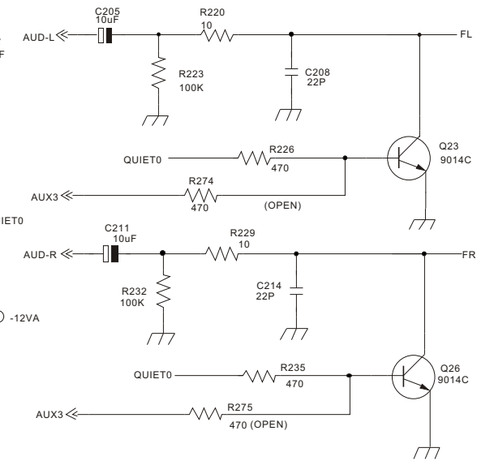
DV-M5000

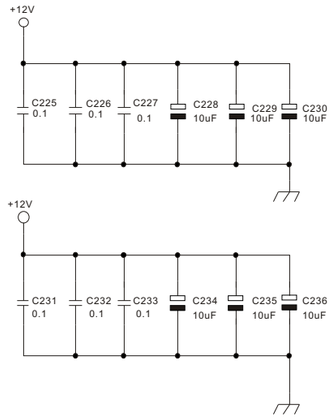
DVD Multi Player

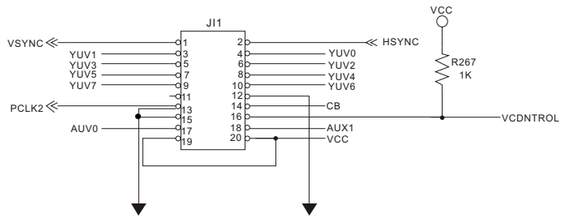
MPEG BOARD - 2

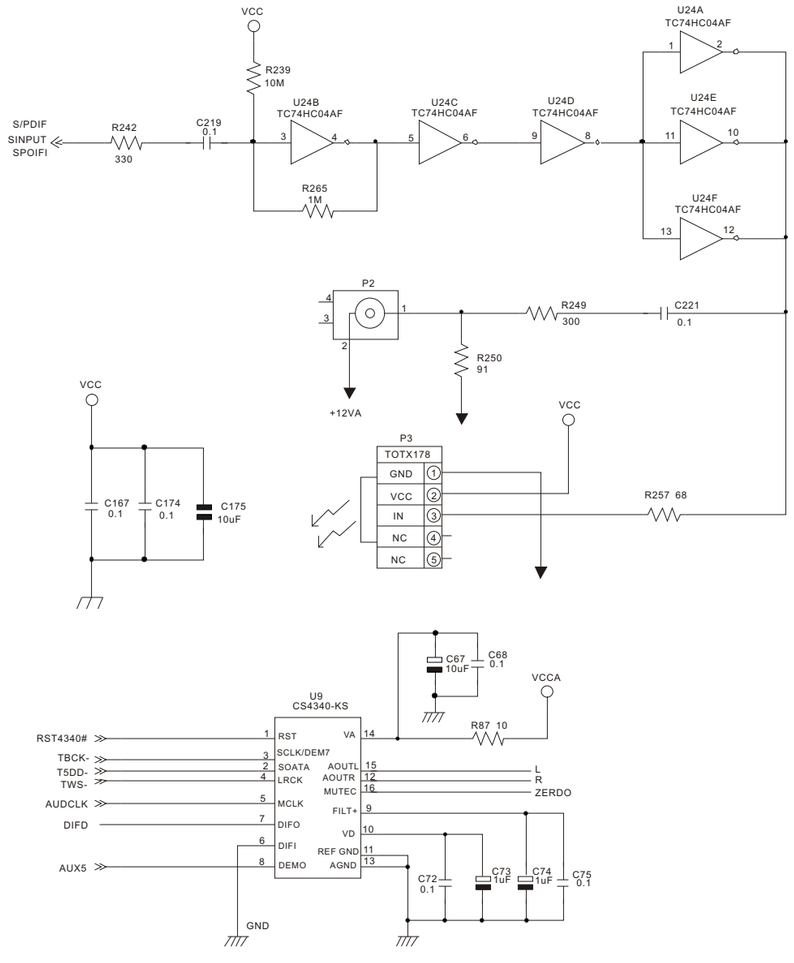


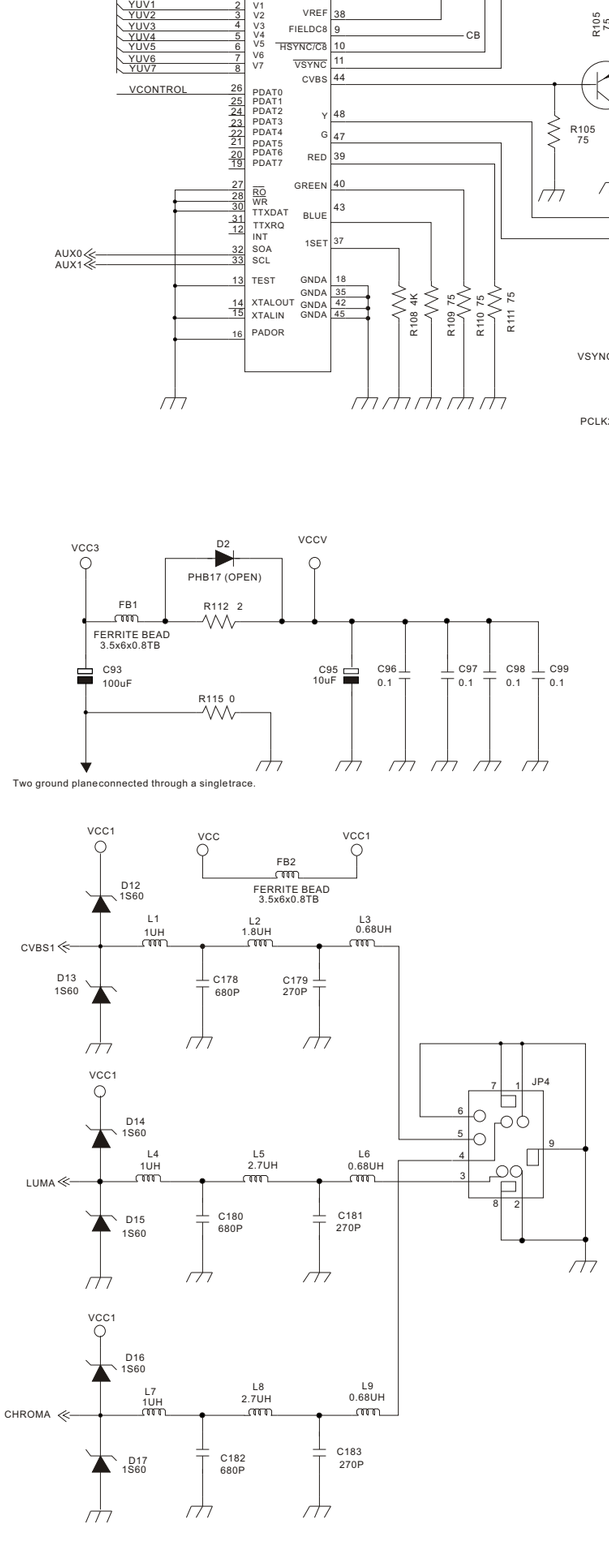


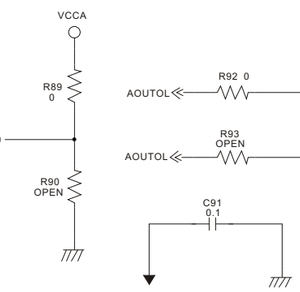


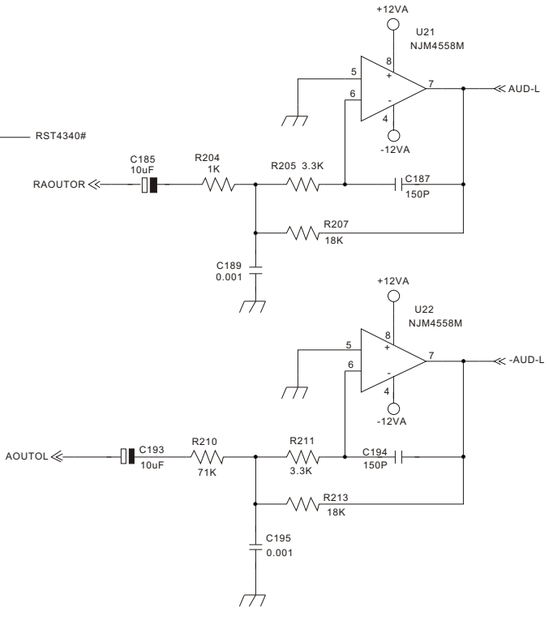












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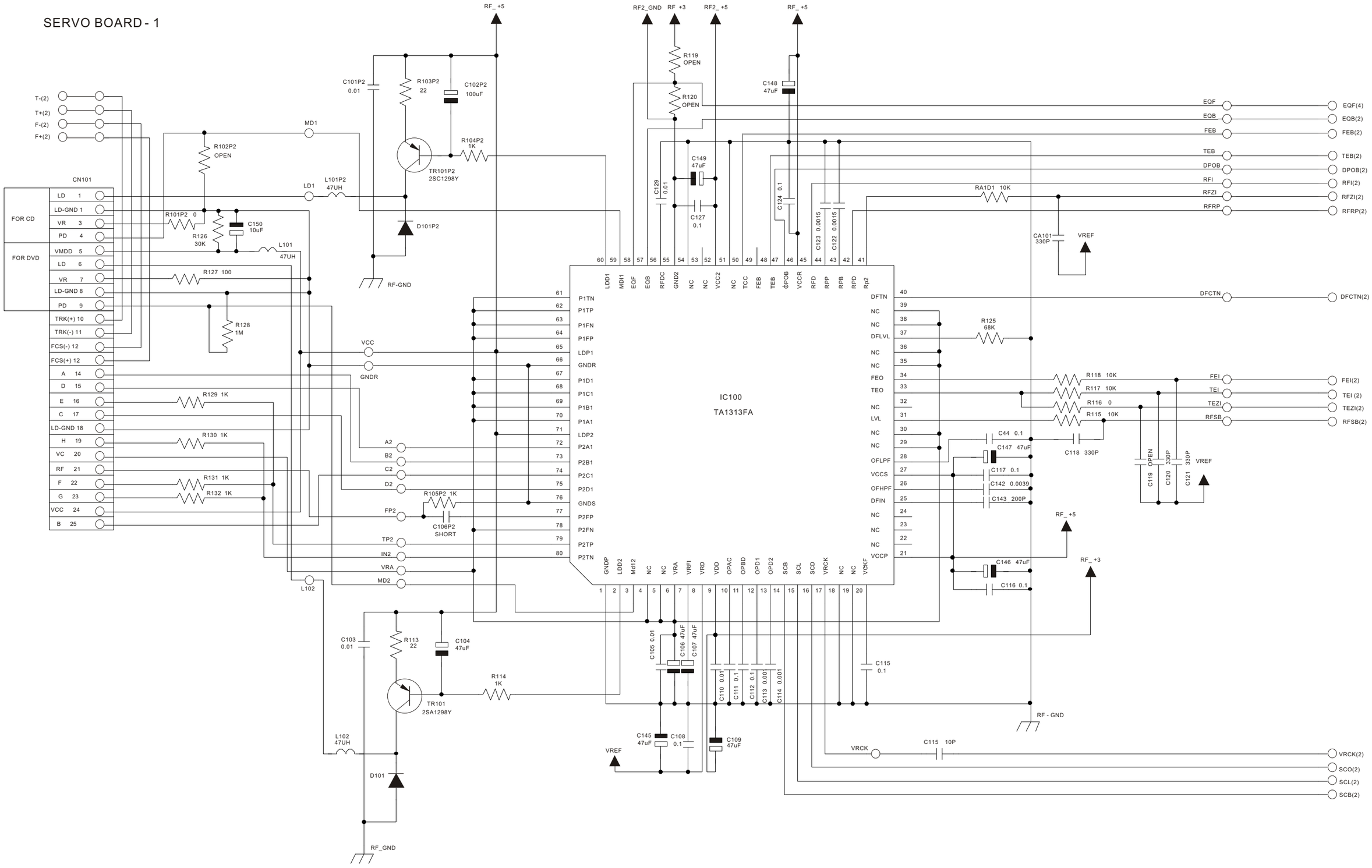
SERVO BOARD - 1



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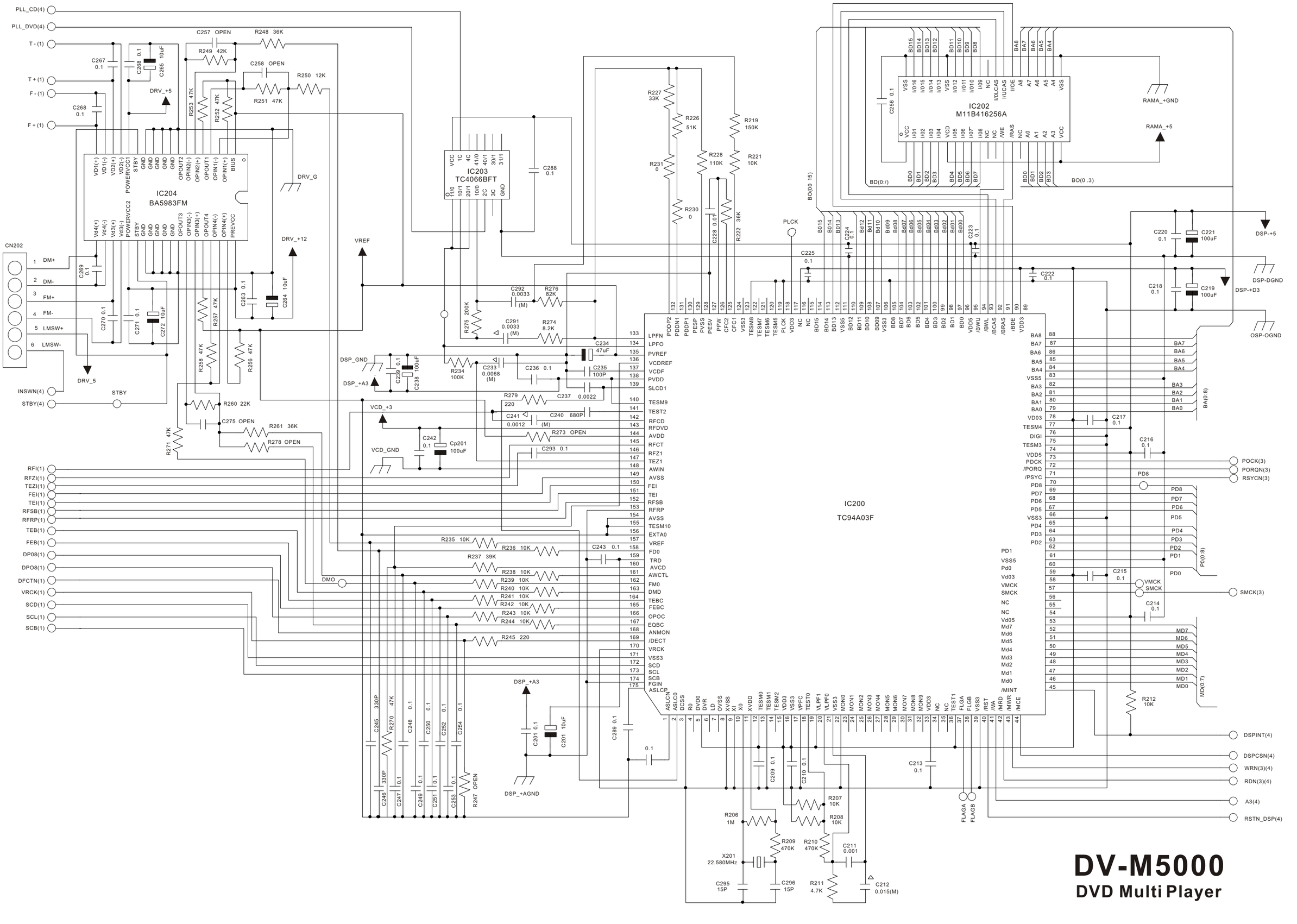
DVD Multi Player

SERVO BOARD - 2



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SERVO BOARD - 3

IC302
M11B416256-A

IC304
PST591DMT

IC305
TA76431F

TR301
2SC3265Y

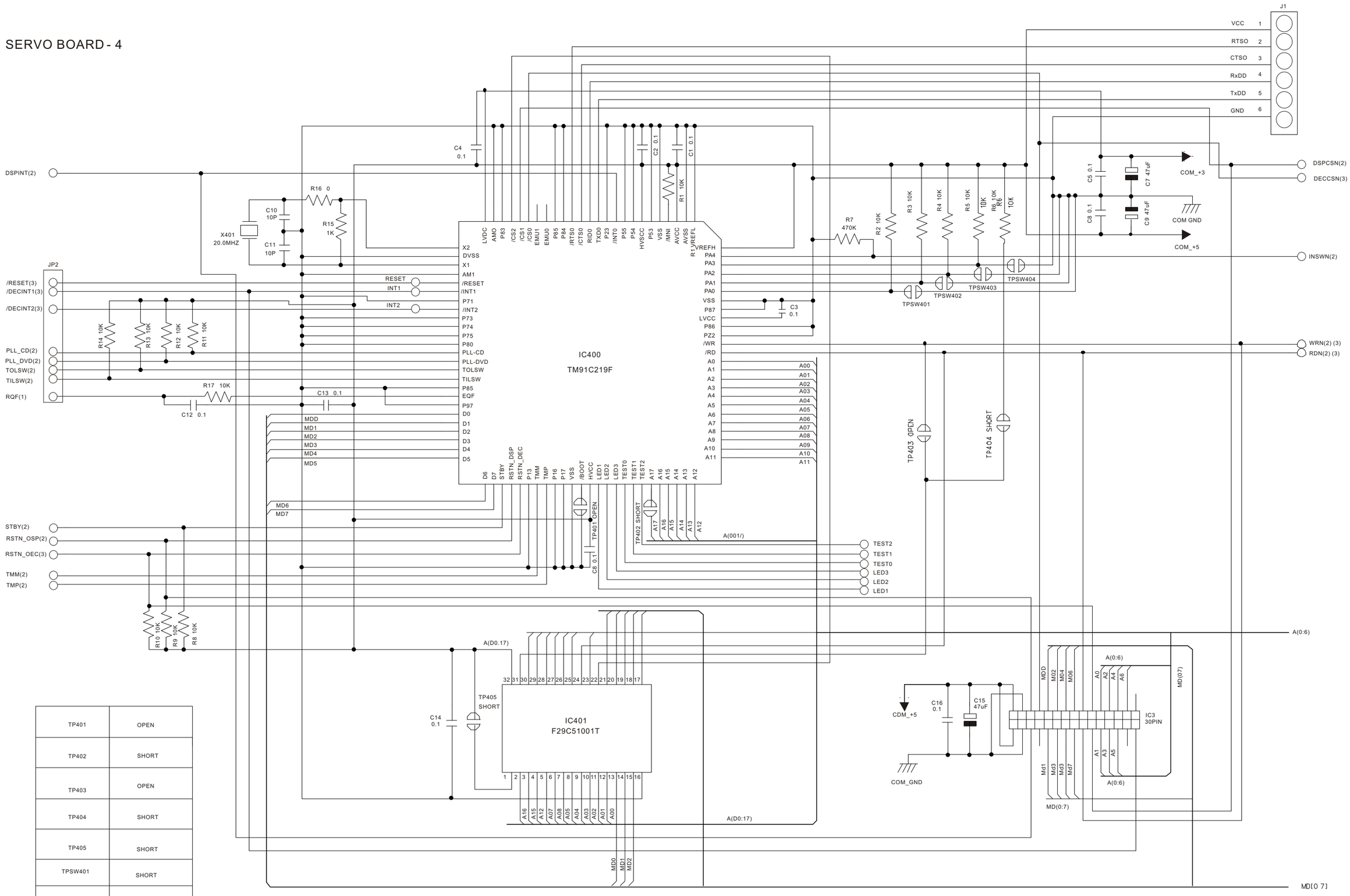
IC300
TC94A05F

CN301

CN301P2

DV-M5000
DVD Multi Player

SERVO BOARD - 4

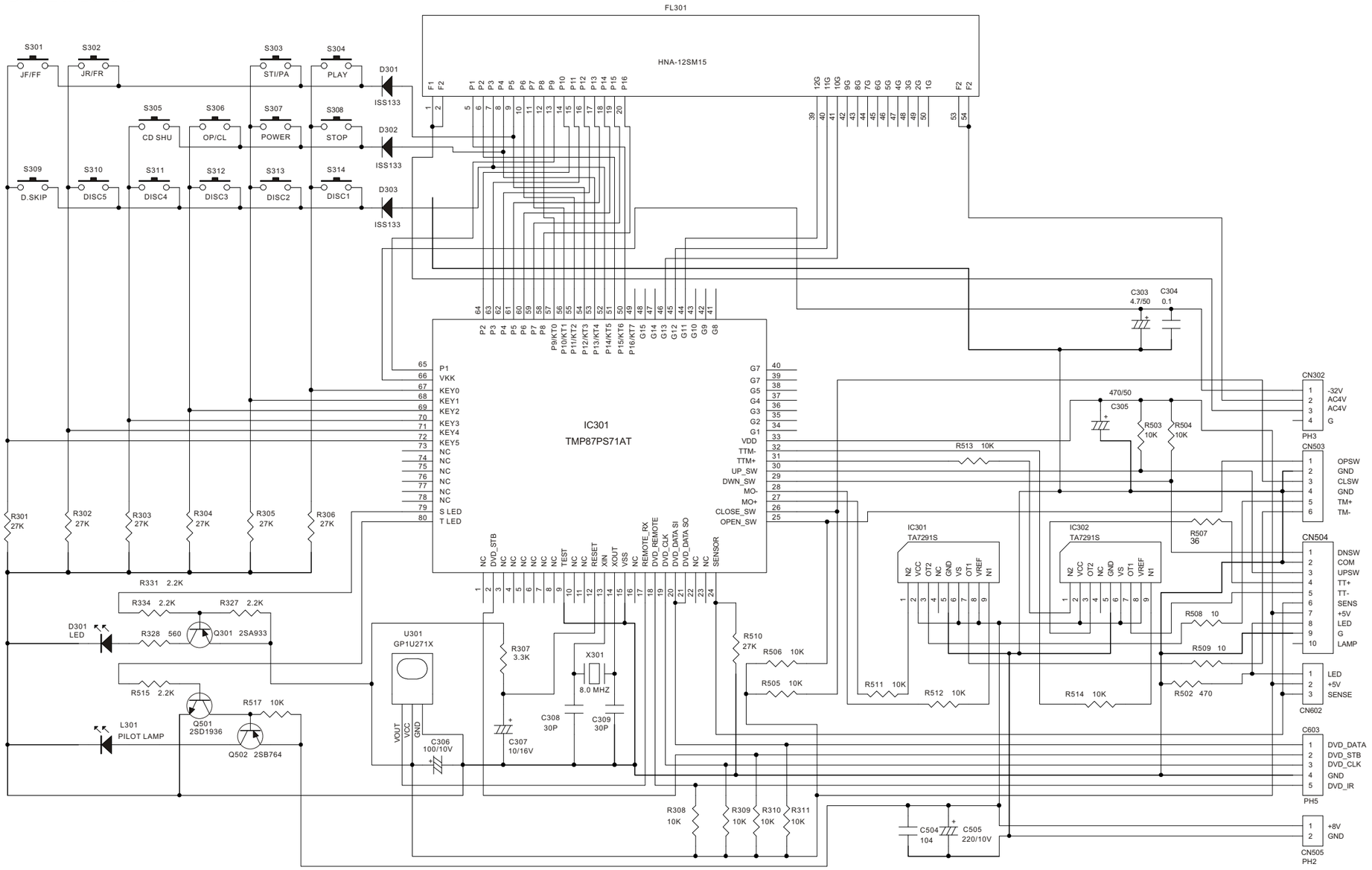


TP401	OPEN
TP402	SHORT
TP403	OPEN
TP404	SHORT
TP405	SHORT
TPSW401	SHORT
TPSW402	SHORT
TPSW403	SHORT
TPSW404	SHORT

DV-M5000

DVD Multi Player

DISPLAY BOARD



DV-M5000

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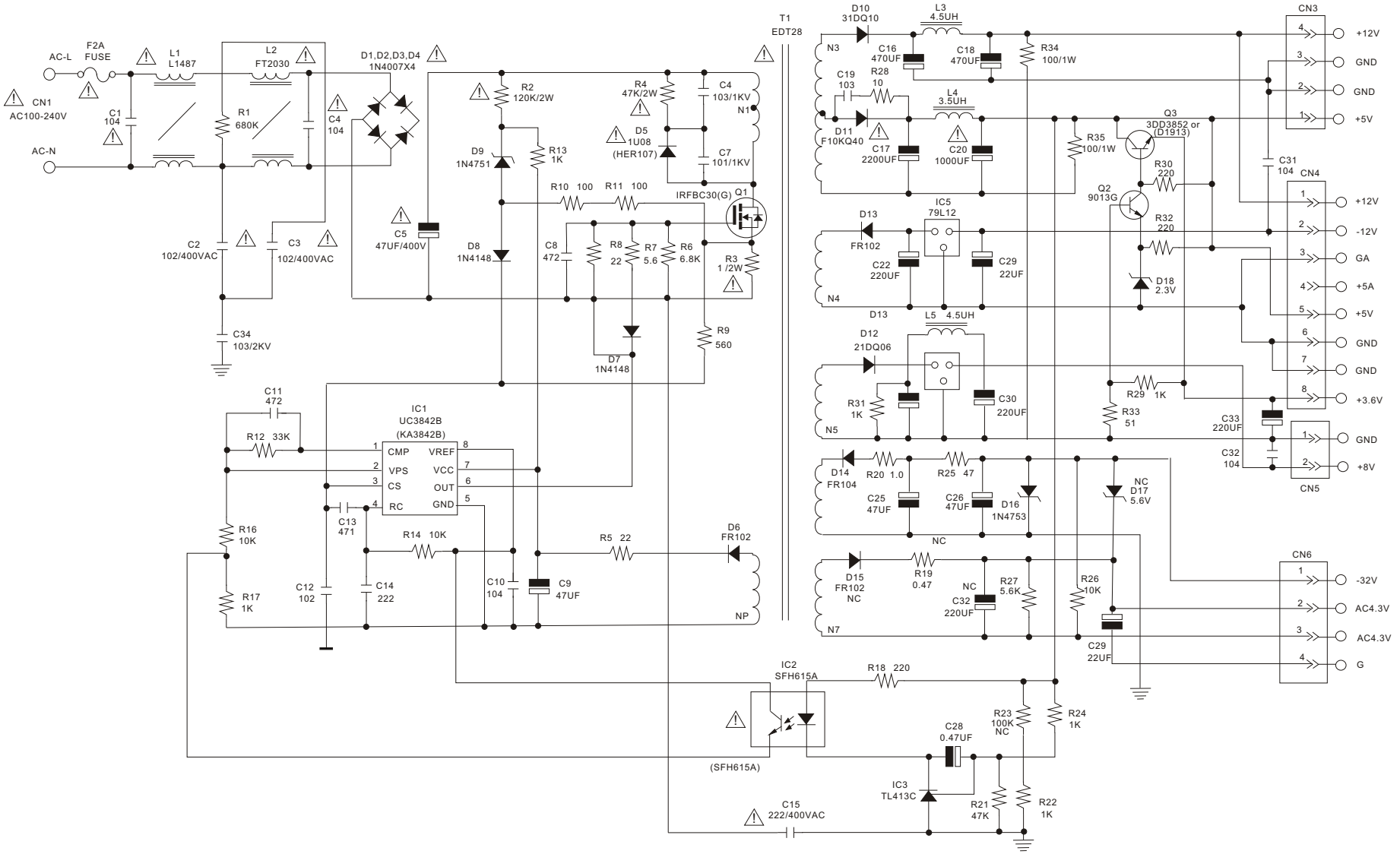
SMP(POWER) BOARD



DV-M5000

DVD Multi Player